

### ABSTRACT OF THE DISCLOSURE

A method for calibrating a laser three-dimensional digitizing sensor. First, a three-dimensional coordinator X-Y-Z is defined and a calibrating surface is provided. Second, a first mapping table of a two-dimensional digital image to the Z axis is established by translating the calibrating surface along the Z axis. Subsequently, the calibrating surface rotates along the Y axis by a predetermined angle and translates along the Z axis to establish the second mapping table of the two-dimensional digital image and the X axis according to the first mapping table.